ELECTRONIC VALVE SPECIFICATION, AD/CV323, ISSUE 3.

AMENDMENT "A".

Page 3, Drawing.

Overall Length.

For 8.5" MIN. read 8.5" MAX.

30th October 1954.

T.V.C. Office. for A.S.R.E.

VALVE ELECTRONIC CV323

ADMIRALTY SIGNAL & RADAR ESTABLISHMENT

Specification AD/CV323/Issue No. 3.	SECURITY			
Dated: 1. 7. 54.	Specification	<u>Valve</u>		
To be read in conjunction with K1001, ignoring clauses: 5.2, 5.3, 5.8, 7.2.	Unclassified	Unclassified		

--- Indicates a change

TYPE OF VALVE:- X-band reflex kly long tuning rang CATHODE:- Indirectly Heated ENVELOPE:- Copper and Glass. PROTOTYPE:- KRN2, K303.	MARKING CV323 Serial No. Marking on base shell.			
RATING	Note	BASE I.O.		
Tuning Range for Output Power	6.25 -200 to	Α _e E	Pin 1 2 3 4 5 6 7 8	Electrode Grid Heater No connection. No connection. No connection. Heater Cathode
Max. Negative Vg for Oscillation Cut-off. (V) Max. Grid and Reflector Series Resistance. (Ω)	150	Đ	See K1001 Reflector	TOP CAP /AI/D5/5.2. IMENSIONS ng, page 3.

NOTES

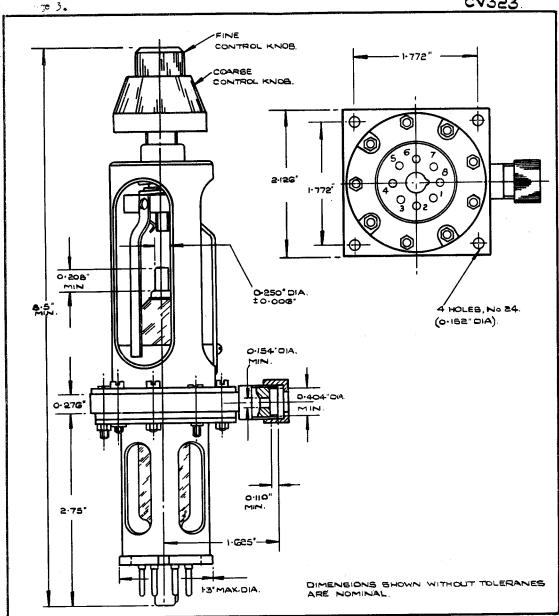
- A. With convection cooling in free air.
- B. The valve must operate satisfactorily with any Vh within the range 4.0 + 0.2 V.
- C. The external circuit is to be plated with silver. All other metal parts, excluding the valve pins and top cap, are to be given an approved corrosion resisting coating.
- D. This figure is not necessarily the same as that for starting oscillation, as there is an hysteresis effect which varies from valve to valve; it should therefore be used with caution.
- E. Absolute maximum value.

To be performed in addition to those applicable in K1001.

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		Test Conditions					Idm:	its	No.	37 . 4 .	l	
	∨h (∨)	Va (kV)	Ia (mA)	Vg (V)	Vr (V)	Test		Min.	Max.	Tested	Note	
a	4.0	0	0	0	0	Ih	(A)	1.0	1.6	100%		
Ъ	4.0	1.6	6.25	Adjust at each fre- quency	Adjust at each fre- quency	1. ii.	Output power in the tuning range 2.95 to 3.48 cms (nW)		-			
	The oscillation frequency is altered by means of the tuning control on the valve and Vr is adjusted to give max. output power at each frequency.		the tuning range 3.10 to 3.20 cms (mW) iii. Vr (V) iv. Vg (V)		-550 -100		1,2.					
С	4.0	1.6	6.25	Adjust	Adjust	osc	to cut off dillations at any quency. (V)	-	- 150	100%		*
đ	d C-G Voltage 250 V min.			C=G	Insulation.	0.1		100%				
С	C.			Gri	acitances d to heater and							
						cat	hode + resonator. (pF)	-	15	T.A.		

NOTES

- 1. The series resistance in the grid and reflector leads shall be 50 k Ω in all these tests.
- 2. A graph of output power against wavelength is to be supplied with each valve. The output power is to vary continuously with the wavelength over the tuning range 2.95 to 3.48 cms. The output must not jump when the tuning control is moved.



CV323/3/3.